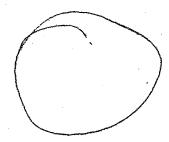
THE 14TH ANNUAL WINTER NEUROPEPTIDE CONFERENCE THANKS
THE COUNCIL FOR TOBACCO RESEARCH, U.S.A., INC.

FOR SUPPORT OF THIS YEAR'S CONFERENCE, WHICH WAS RECEIVED AFTER THE PROGRAM WAS PRINTED.



FOURTEENTH ANNUAL

WINTER UROPEPIDE ONFERENCE 1993

矩BRUARY 6-9, 1993

移総CKENRIDGE, COLORADO

WINTER NEUROPEPTIDE CONFERENCE

Chairman Reur Strand Biology Department New York University Washington Square New York, NY 10003 (212) 998-8275

February 6-9, 1993

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Program Chairman Bill Beckwith 1520 Royal Palm Square Boulevard Suite 350 Ft. Myers, FL 33919 (813) 278-3443

Conference Coordinator Debra Edwards P.O. Box 7518 Breckenridge, CO 80424 (303) 453-5970 WELCOME TO THE WINTER NEUROPEPTIDE CONFERENCE.

We are pleased to be hosts for this, the fourteenth year of the conference.

We hope that your meetings are profitable and your stay in Breckenridge relaxing and enjoyable. If we can be of any assistance, just let us know.

Cordially,

Debra Educada -Debra Edwards
Conference Coordinator

Conference Committee Members: Fleur Strand
Bibie Chronwall
Curt Sandman
Bill Beckwith

ACKNOWLEDGEMENTS

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Schedule-at-a-Glance

14TH ANNUAL WINTER NEUROPEPTIDE CONFERENCE

February 6-9, 1993

Saturday, February 6

Noon - 10 PM Conference Registration: Forest Room Foyer 3:30 - 3:45 PM Opening Remarks: Forest Room 3:45 - 6 PM Symposia Meeting: Forest Room Dinner Break (on your own) 8 - 10 PM Symposia Meeting: Forest Room

Sunday, February 7

3 - 10 PM Conference Registration: Forest Room Foyer
3:30 - 5:45 PM Symposia Meeting: Forest Room
6 PM Plenary Address: Elk Room
7 - 8 PM Cocktails: Forest Room Lounge
8 - 10 PM Banquet: Forest Room

Monday, February 8

10:30 AM Tom Davis "Psychopathic Challenge" Meet at top of Chair 6

1:30 PM "I Licked Devil's Crotch" with Bill
Beckwith - Meet at Peak 9 Restaurant

3 - 10 PM Conference Registration: Forest Room Lobby

3:45 - 6 PM Symposia Meeting: Forest Room

6 - 8 PM Dinner Break (on your own)

8 - 10 PM Symposia Meeting: Forest Room

Tuesday, February 9

8 - 9:30 AMSymposia Meeting: Forest Room 10 AM Country Boy (Peak 9) NASTAR Ski Race: Mountain Picnic: Noon Beaver Run (Base of Mercury Lift) Conference Registration: Forest Room Lobby 3 - 8 PM 3:45 - 6 PMSymposia Meeting: Forest Room Poster Session: Cocktails & Hors D'oeuvres 6 РМ Forest Room

SATURDAY, FEBRUARY 6

3:45pm - 6:00pm Vasoactive Intestinal Peptide/Pituitary Adenylate Cyclase Activating Peptide (Terry Moody, The George Washington University)

8:00pm - 10:00pm Peptides and the Blood-Brain Barrier (Thomas P. Davis, University of Arizona)

SUNDAY, FEBRUARY 7

3:30pm - 5:45pm Stress-Responsive Neuropeptides and the Pathophysiology of Mood and Eating Disturbances and Obsessionalism in Major Psychiatric Illnesses: Clinical and Preclinical Studies (Mitchel Kling, NIMH)

6:00pm Plenary Address -- "Hormones Modulate an Ever-Changing Brain" (Bruce McEwen, The Rockefeller University)

7:00pm Cocktails 8:00pm Banquet

MONDAY, FEBRUARY 8

3:45pm - 6:00pm Neurochemical, Physiological and Behavioral Aspects of the Central Neurotensin System (Duff Davis, Parke-Davis Company)

8:00pm - 10:00pm Bombesin-Like Peptides: Receptor Distribution, Physiology, and Behavioral Actions (Bill Flynn, University of Wyoming)

TUESDAY, FEBRUARY 9

8:00am - 9:30am Breakfast Meeting - Peptides and Thermoregulation (Garth Resch, University of Missouri -- KC)

10:00am Ski Race - Country Boy, Peak 9

Noon Picnic - Beaver Run

3:45pm - 6:00pm Endocrine and Metabolic Signals Regulating Autonomic Function and Behavior: Old Peptides with New Functions (Gaylen L. Edwards, University of Georgia)

6:00pm - 10:00pm POSTER SESSION

SATURDAY, FEBRUARY 6 3:45 pm - 6:00pm

SESSION I

PANEL: "Vasoactive Intestinal Peptide/Pituitary Adenylate Cyclase Activating Peptide." Terry Moody, The George Washington University

Activity-dependent neurotrophic factor: a mediator of VIP neurotrophism in the central nervous system -- Douglas E. Brenneman, Lab. of Developmental Neurobiology, NICHD, Bethesda, MD 20892

VIP: molecular genetics and chemically designed analogues --Illana Gozes, Department of Pathological Chemistry, University of Tel Aviv University Faculty of Medicine, Tel Aviv 69978 Israel

VIP and PACAP mRNA and binding sites in the developing nervous system -- Joanna Hill, SK McCune, & P Gressens, Laboratory of Developmental Neurobiology, NICHD, NIH and Department of Pediatric Medicine, Childrens National Medical Center, George Washington University, Washington, D.C. 20010

Signal transduction mechanisms of vasoactive intestinal peptide and pituitary adenylate cyclase activating peptide -- Terry Moody, Department of Biochemistry, George Washington University School of Medicine, Washington, D.C. 20037

6:00pm - 8:00pm FREE TIME 8:00pm - 10:00pm

SESSION II

PANEL: "Peptides and the Blood-Brain Barrier." Thomas P. Davis, University of Arizona

Therapeutic implications of peptide transport across the bloodbrain barrier -- William A. Banks, Veterans Affairs Medical Center, 1601 Perdido Street, New Orleans, LA 70146

Neurotensin and the blood-brain barrier -- Garth Bissette & E. Richelson, Department of Psychiatry, Duke University Medical Center, Durham, NC 27710 and Mayo Clinic, Jacksonville, Fl 32224

Assessment of an In Vitro blood-brain barrier model using several [met5]enkephalin opioid analogs -- Thomas P. Davis & SJ Weber, Department of Pharmacology, University of Arizona College of Medicine, Tucson, AZ 85724

SUNDAY, FEBRUARY 7 3:30pm - 5:45pm

SESSION III

PANEL: "Role of Neuropeptides in the Pathophysiology and Treatment of Depressive, Eating, and Obsessional Disorders: Clinical and Preclinical Studies." Mitchel Kling, NIMH

Alterations of stress-responsive neuropeptide function in depressive syndromes: clinical and pathophysiologic implications -- Mitchel Kling, MD DeBellis, & PW Gold, Clinical Neuroendocrinology Branch, NIMH, Bethesda, MD 20892

Alterations of glucocorticoid-suppressible neuropeptides in eating and obsessive-compulsive disorders: focus on CRH, AVP, and somatostatin -- Margaret Altemus, Chief, Unit on Adult Obsessive-Compulsive Disorder, Laboratory of Clinical Science, Intramural Research Program, NIMH, Bethesda, MD 20892

Effects of stress and kindling paradigms on neuropeptide gene expression: focus on corticotropin releasing hormone -- Mark A. Smith, Clinical Neuroendocrinology and Biological Psychiatry Branches, NIMH, Bethesda, MD 20892

Effects of antidepressant treatments on corticotropin-releasing hormone mRNA expression in rat brain -- Linda S. Brady, Section on Functional Neuroanatomy, NIMH, Bethesda, MD 20892

Rapid improvement in major depression after low subcutaneous doses of MIF-1 -- Rudolf H. Ehrensing, AJ Kastin, GF Wurzlow, GF Michell, & AH Mebane, Department of Psychiatry, Ochsner Medical Institutions, New Orleans, LA 70121 & VA Medical Center and Tulane University School of Medicine, New Orleans, LA 70146

6:00pm

PLENARY ADDRESS

"HORMONES MODULATE AN EVER-CHANGING BRAIN"

DR. BRUCE MCEWEN

The Rockefeller University, 1230 York Avenue, New York, NY 10021-6399

7:00pm COCKTAILS

8:00pm BANQUET

MONDAY, FEBRUARY 8 3:45pm - 6:00pm

SESSION IV

PANEL: "Neurotensin: Neurochemical, Physiological and Behavioral Aspects Including Peptide and Non-Peptide Ligands." Duff Davis, Parke-Davis Company

Metabolically stable neurotensin (8-13) analogs as potential therapeutic agents -- DJ Wustrow, WL Cody, T Heffner, TA Pugsley, H Akunne, LD Wise, DL Heyl, JX He, & AM Thieme-Sefler, Parke Davis Pharmaceutical Research Warner Lambert Company, Ann Arbor, MI 48103

SR 48692, the first potent selective non-peptide antagonist of neurotensin receptors -- P Kitabai, C Labbe-Jullie, J Mazella, A Brouard, D Pelaprat, W Rostene, D Gully, M Ponceiet, M Heaulme, JP Maffrand, & G Le Fur, IPMC, CNRS, 680 Route des Lucioles, Sophia Antipolis, 06560 Valbonne; INSERM U339, Hopital St-Antoine, 75571 Paris Cedex 12; Sanofi Recherche, 195 Route d'Espagne, 31306 Toulouse Cedex, France

Region specific effects of antipsychotic drugs on rat striatal neurotensin (NT) gene expression -- KM Merchant, DJ Dobie, & DM Dorsa, Departments of Psychiatry and Behavioral Sciences and Pharmacology, University of Washington, Seattle, WA 98195

Colocalization of neurotensin with dopamine and CCK in the brain: the potential of microdialysis for assessing functional implications -- Nigel T. Maidment, Department of Psychiatry, NPI and BRI, UCLA School of Medicine, Los Angeles, CA 90024

6:00pm - 8:00pm FREE TIME 8:00pm - 10:00pm

SESSION V

PANEL: "Bombesin-Like Peptides: Receptor Distribution, Physiology, and Behavioral Actions." Bill Flynn, University of Wyoming

Bombesin receptor subtypes in the CNS and glioblastoma cells -- Terry Moody & JF Battery, Department of Biochemistry and Molecular Biology, George Washington University Medical Center, Washington, D.C. 20037 and Laboratory of Biological Chemistry, NCI, Bethesda, MD 20037

Pharmacological characterization of gastrointestinal bombesin receptor subtypes: implications in bombesin satiety -- Ellen Ladenheim, Department of Psychiatry and Behavioral Sciences, John Hopkins University School of Medicine, Baltimore, MD 21205

A role of bombesin-like peptides in food intake: a central perspective -- Bill Flynn & L Robillard, Department of Psychology and Neuroscience Program, University of Wyoming, Laramie, WY 82071-3415

Bombesinergic control of alcohol preference -- Paul J. Kulkosky, Dept. of Psychology, University of So. Colorado, Pueblo, CO 81001

TUESDAY, FEBRUARY 9 Breakfast Meeting: 8:00am-9:30am

SESSION VI

PANEL: "Mediation and Modulation of Febrile and Antipyretic Host Responses." Garth Resch, University of Missouri -- KC

AVP-mediated mechanism of action of antipyretic/anti-inflammatory drugs -- NW Kasting & MF Wilinson, Department of Physiology, University of British Columbia, Vancouver, B.C., Canada and Department of Medical Physiology, University of Calgary, Calgary, Alberta, Canada V6T1W5

Interlukin-1beta and prostoglandin E2 modulation of corticosterone in selected PGE2- and alpha-MSH-sensitive mPOA thermogenic sites -- Garth E. Resch, School of Biological Science, University of Missouri at Kansas City, Kansas City, MO 64108

Selective antagonism of the thermogenic actions of pyrogens in the brain -- WD Ruwe, WM Zawada, J Clarke, & RD Myers, Department of Clinical Psychology, George Fox College, Newberg, OR 97132; Department of Physiology and Biophysics, University of Arkansas for Medical Sciences, Little Rock, AR 72205; Departments of Pharmacology and Psychiatric Medicine, School of Medicine, East Carolina University, Greenville, NC 27858

3:45pm - 6:00pm

SESSION VII

PANEL: "Endocrine and Metabolic Signals Regulating Autonomic Function and Behavior: Old Peptides with New Functions." Gaylen L. Edwards, University of Georgia

Hindbrain modulation of autonomic function and behavior: an overview -- Gaylen Edwards, Department of Physiology and Pharmacology, College of Veterinary Medicine, University of Georgia, Athens, GA 30602

Endogenous CCK: control of food intake via neurotransmitter action at vagal sensory neurons -- Robert C. Ritter, Department of VCAPP, College of Veterinary Medicine, Washington State University, Pullman, WA 99164

Influence of peripheral and central insulin on sympathetic nerve activity -- Martin Muntzel & AK Johnson, Departments of Psychology and Pharmacology and the Cardiovascular Center, University of Iowa, Iowa City, IA 52242

Neuropeptide galanin: possible role in control of food intake by fatty acid oxidation -- Sue Ritter, Department of VCAPP, Washington State University, Pullman, WA 99164-6520

6:00pm - 10:00pm

POSTER SESSION AND RECEPTION WITH COCKTAILS AND HORS D'OEUVRES SEE ABSTRACT SECTION FOR LISTING OF POSTERS

APPENDIX A

Symposia Abstracts